Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2020	LMNBL09.00R4	9.04	Diesel	8,000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION		
Turbock Catalyst.	c Control Module, Electronarger, Charge Air Coole Continuous Trap Oxidize action-Urea, Ammonia Ox	r, Diesel Oxidation	Loaders, Tractors, Harvesters, Agricultural Equipment, Construction Equipment, Pumps			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
CLASS			NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	0.24		0.2	0.002		-	

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 2137

\_\_ day of February 2020.

Allen Jons, Chief

**Emissions Certification and Compliance Division** 

Attachment : 1/1

EOX: U.R\_067-0014

## **Engine Model Summery Template**

17/25/2019

Engine Family	1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate mm³/stroke@peak HP (for diesel only)	5. Fuel Rate (lbs/hr)@peak HP (for diesel only)	6. Torque @ RPM (SAE Gross)	7. Fuel Rate mm³/stroke @ peak torque	8. Fuel Rate (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
LMNBL09.00R4	D1556	LE121	305 kW @	213	134	1970 Nm @	265	112	ECM, DI, TC
			1900 rpm			1275 rpm			CAC, DPF, DOC SCR-U, AMOX
LMNBL09.00R4	D1556	LE526	305 kW @	230	129	1970 Nm @	264	111	ECM, DI, TC
			1700 rpm			1275 rpm			CAC, DPF, DOC SCR-U, AMOX
LMNBL09.0OR4	D1556	LE527	283 kW @	214	120	1850 Nm @	246	104	ECM, DI, TC
			1700 rpm			1275 rpm			CAC, DPF, DOC SCR-U, AMOX
LMNBL09.00R4	D1556	LE528	261 kW @	197	111	1750 Nm @	232	97	ECM, DI, TC
			1700 rpm			1262 rpm			CAC, <del>DPF</del> , DOC SCR-U, AMOX
LMNBL09.00R4	D1556	LE529	239 kW @	181	102	1650 Nm @	218	89	ECM, DI, TC
			1700 rpm			1237 rpm			CAC, <del>DPF</del> , DOC SCR-U, AMOX
LMNBL09.00R4	D1556	LE530	217 kW @	165	93	1550 Nm @	205	80	ECM, DI, TC
			1700 rpm			1180 rpm			CAC, <del>DPF</del> , DOC SCR-U, AMOX

CTOX